

FIG. 1

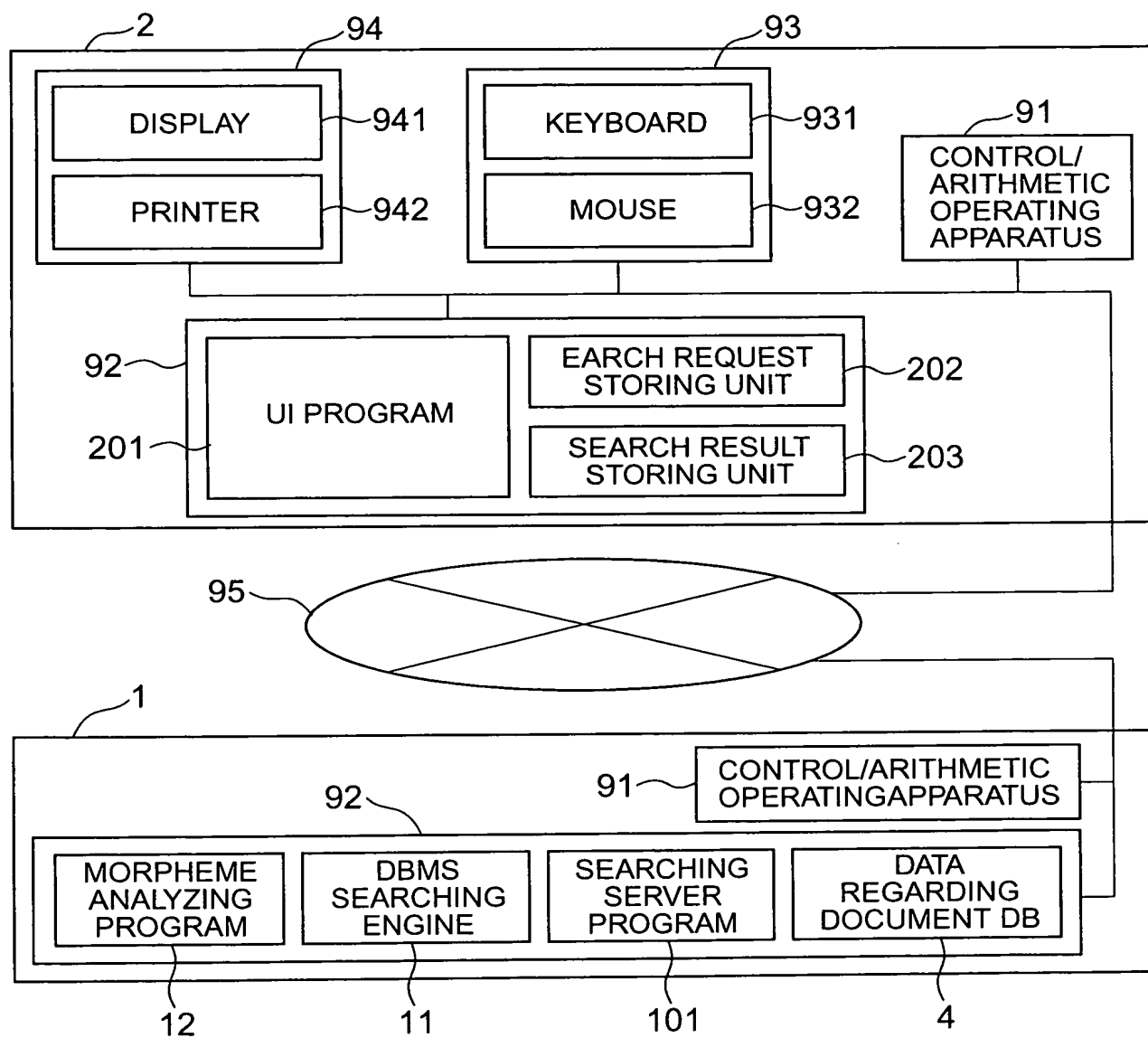


FIG. 2

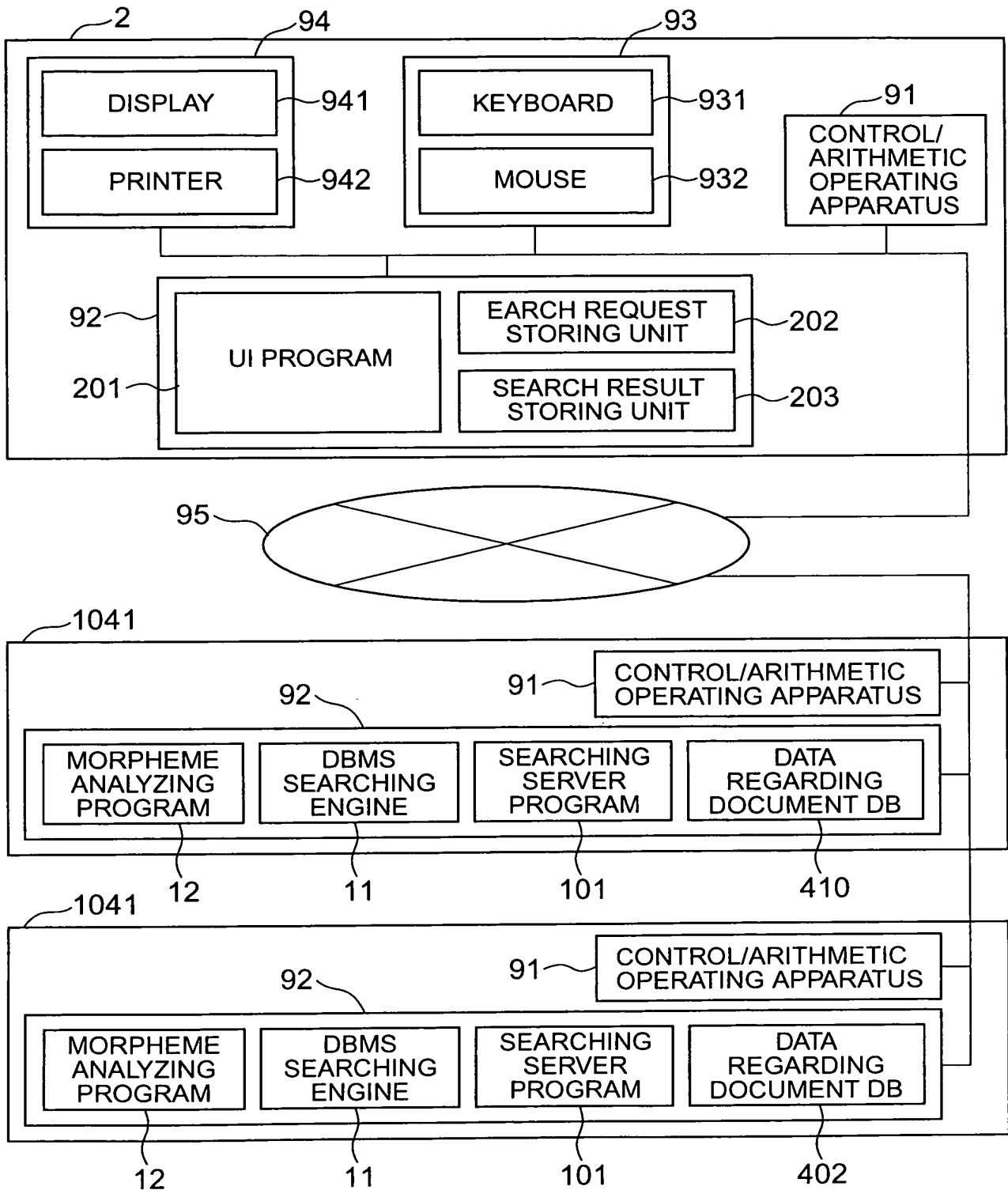


FIG. 3

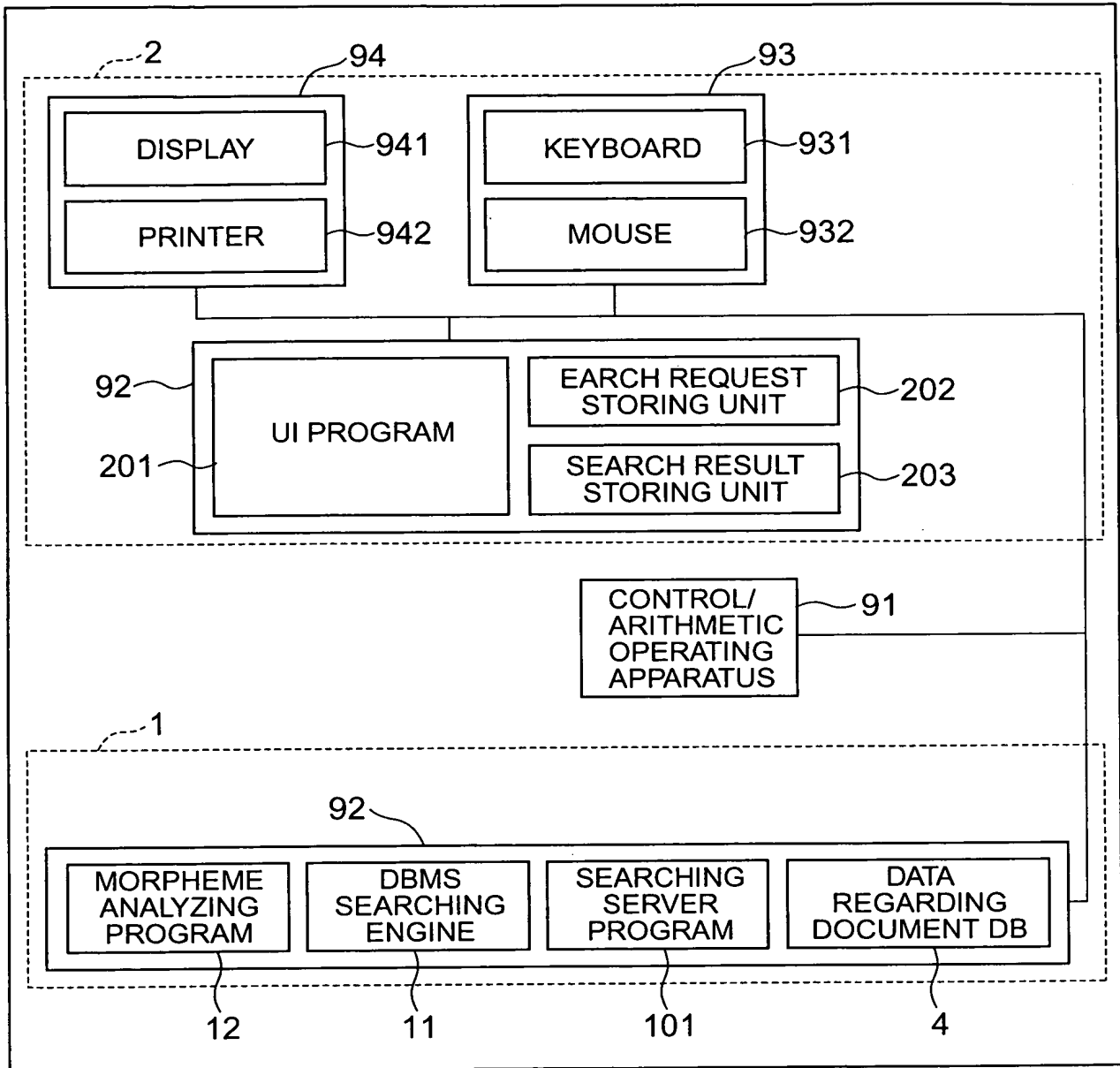


FIG. 4

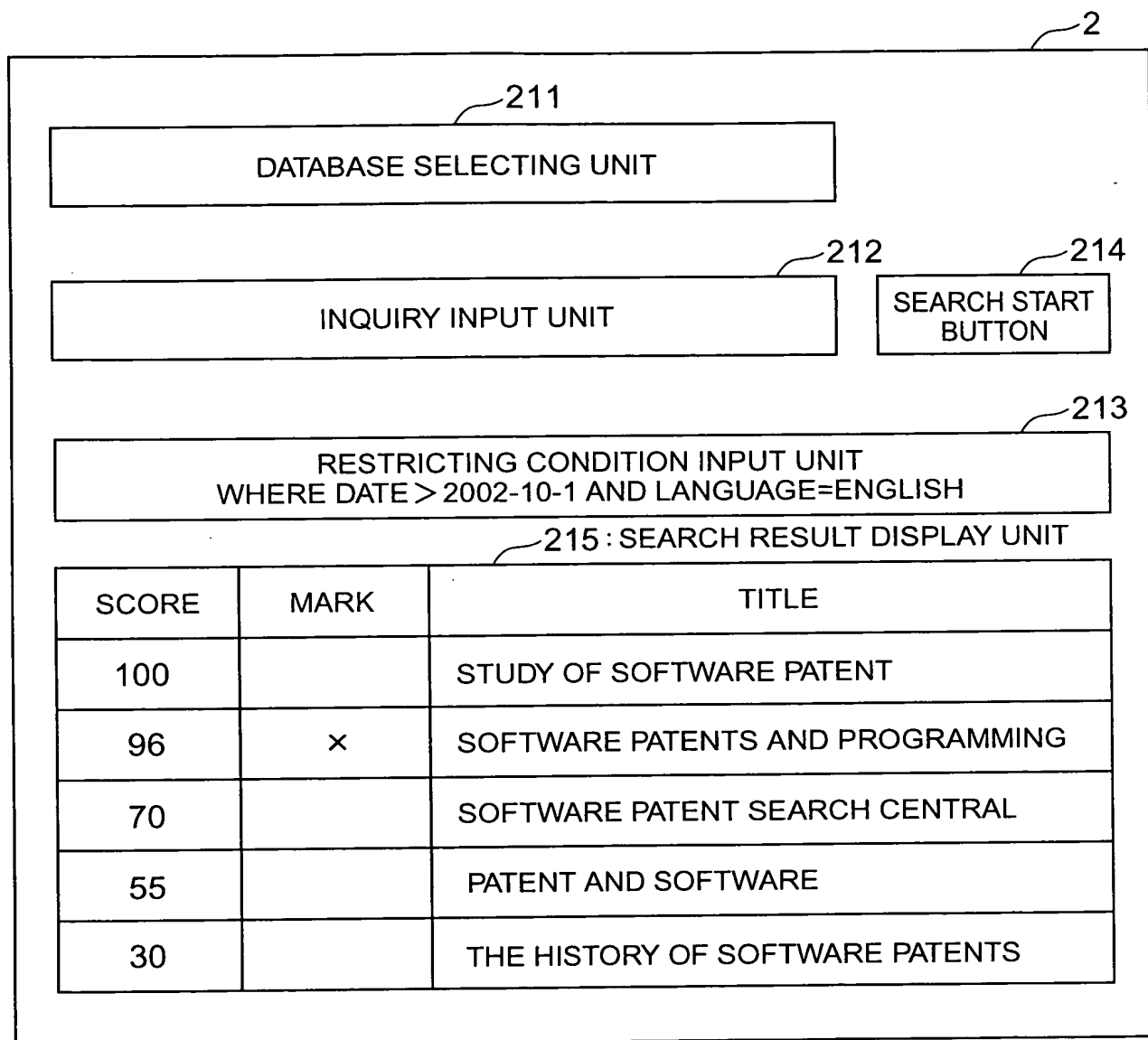


FIG. 5

2

211

DB1

212

PATENT

214

SEARCH

213

WHERE DATE > 2002-10-1 AND LANGUAGE=ENGLISH

215

SCORE	MARK	TITLE
100		STUDY OF SOFTWARE PATENT
96	x	SOFTWARE PATENTS AND PROGRAMMING
70		SOFTWARE PATENT SEARCH CENTRAL
55		PATENT AND SOFTWARE
30		THE HISTORY OF SOFTWARE PATENTS

216

DOCUMENT ASSOCIATIVE
SEARCH START BUTTON

FIG. 6

204

DEPRESSED BUTTON	INFORMATION TO BE COLLECTED
SEARCH BUTTON	TARGET DB SEARCH REQUEST INPUT UNIT SEARCHING CONDITION INPUT UNIT CHECK OF DOCUMENT
DOCUMENT ASSOCIATION SEARCH BUTTON	TARGET DB CHECK OF DOCUMENT

FIG. 7

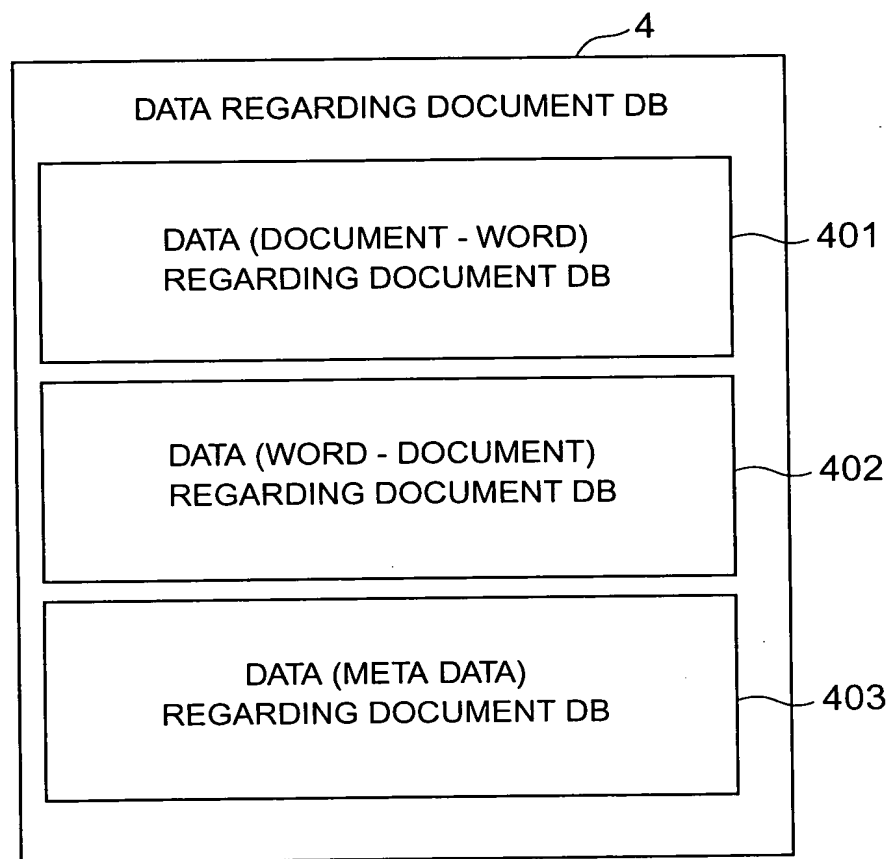


FIG. 8

401

DOCUMENT ID	PAIR OF INCLUDED WORD ID AND FREQUENCY
1	{1,10},{2,3},{4,8},...
2	{2,5},...
3	{4,2},...
4	...
...	...

FIG. 9

402

WORD ID	PAIR OF DOCUMENT ID INCLUDING AND FREQUENCY
1	{1,10},...
2	{1,3},{2,5},...
3	...
4	{1,8},{3,2},...
...	...

FIG. 10

403

DOCUMENT ID	TITLE	URL
1	PATENT AND SOFTWARE	http://www.some.where/
2	THE HISTORY OF SOFTWARE PATENTS	ftp://ftp.now.here/
3	SOFTWARE PATENT INSTITUTE	...
4	...	
...	...	

FIG. 11

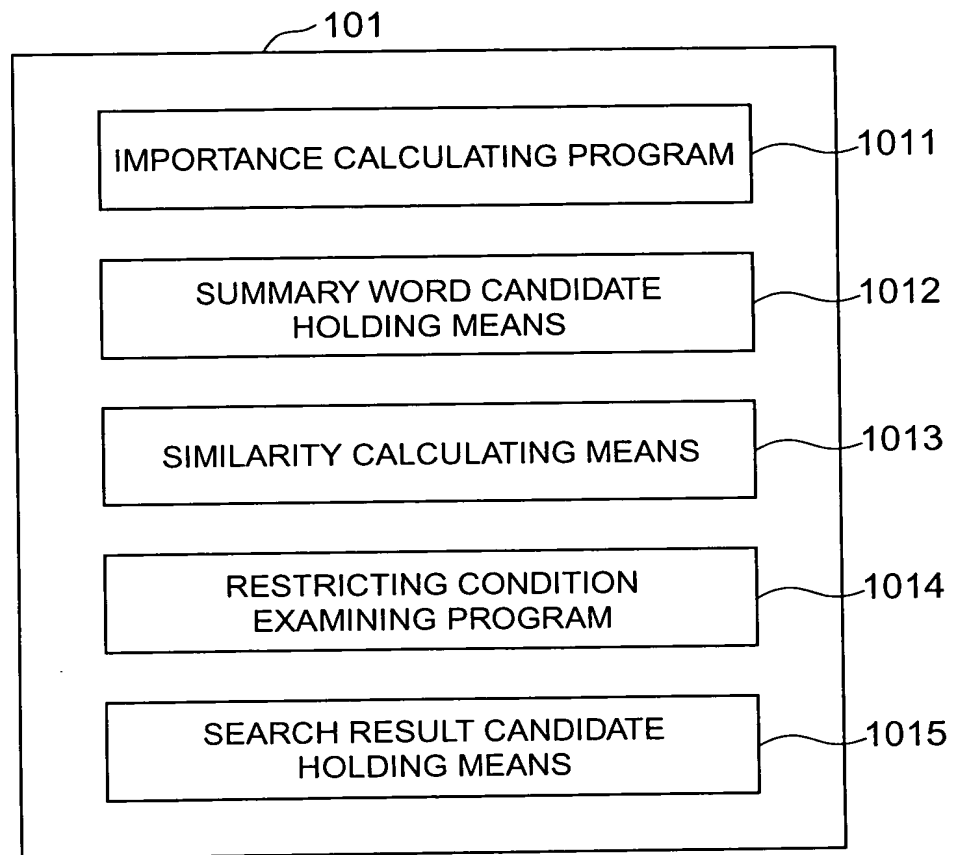


FIG. 12

PROCEDURE 1 = OPERATION OF SEARCHING SERVER

PROCEDURE 2:
SUMMARY WORD LIST IS FORMED FROM INQUIRY
SENTENCE IN SEARCH REQUEST AND SEARCHING
SOURCE DOCUMENT.

PROCEDURE 5:
RELATED DOCUMENTS ARE SEARCHED FROM
SUMMARY WORD LIST.

SEARCH RESULT IS RETURNED TO USER INTERFACE.

FIG. 13

PROCEDURE 2 = SUMMARY WORD LIST IS FORMED AS SUMMARY OF INQUIRY SENTENCE IN SEARCH REQUEST AND SELECTED DOCUMENT.

PROCEDURE 3:
SUMMARY OF SEARCHING SOURCE DOCUMENT
IS FORMED AND USED AS SUMMARY WORD LIST.

INQUIRY SENTENCE IS SEPARATED INTO WORDS
AND SEARCH WORD LIST IN WHICH FREQUENCY
OF APPEARANCE OF THE WORD IS USED AS
IMPORTANCE OF WORD IS FORMED.

SUMMARY WORD LIST AND INQUIRY WORD LIST
ARE COMBINED AND THE COMBINATION IS NEWLY
USED AS SUMMARY WORD LIST.

501

502

FIG. 14

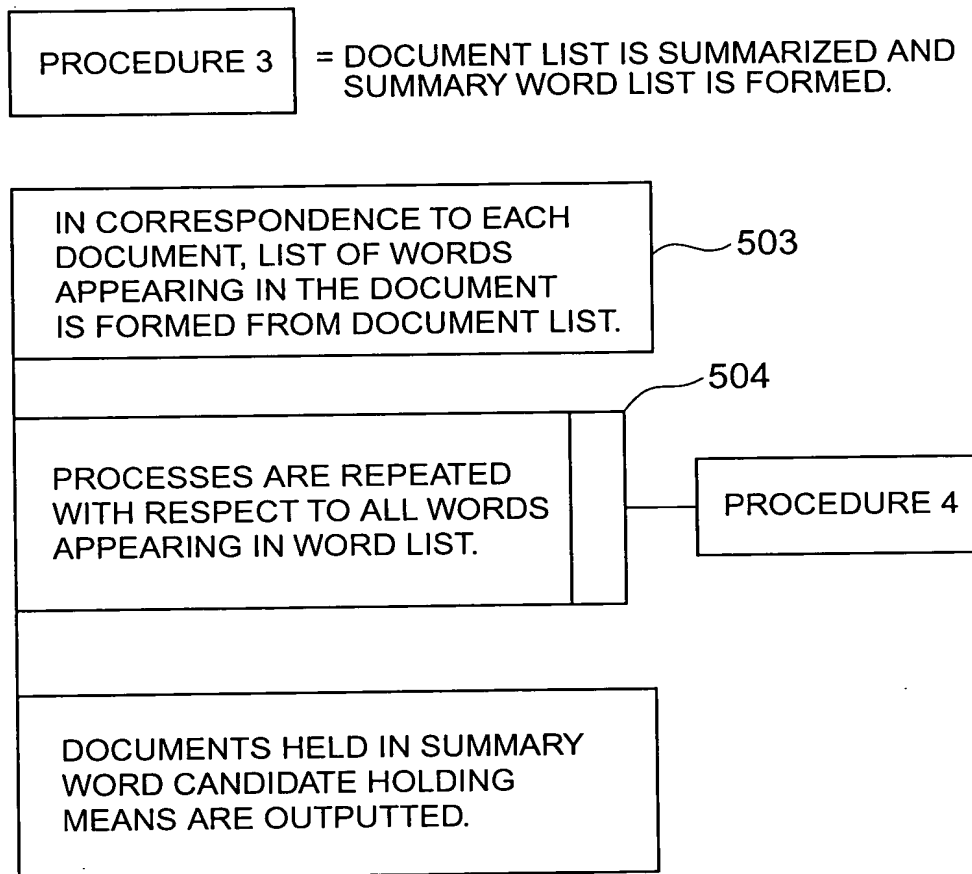


FIG. 15

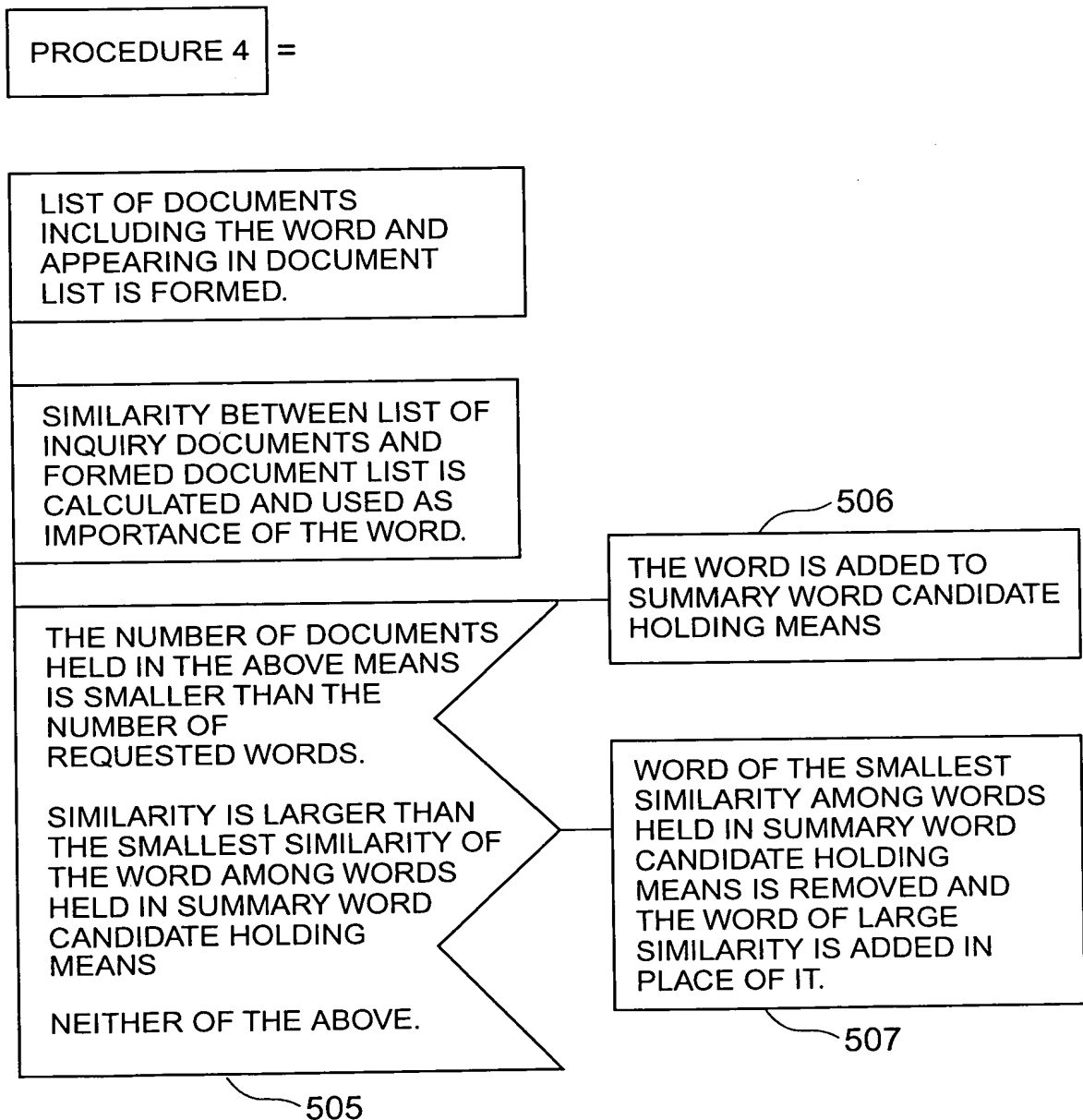


FIG. 16

PROCEDURE 5 = RELATED DOCUMENTS ARE SEARCHED FROM SUMMARY WORD LIST (PART 1).

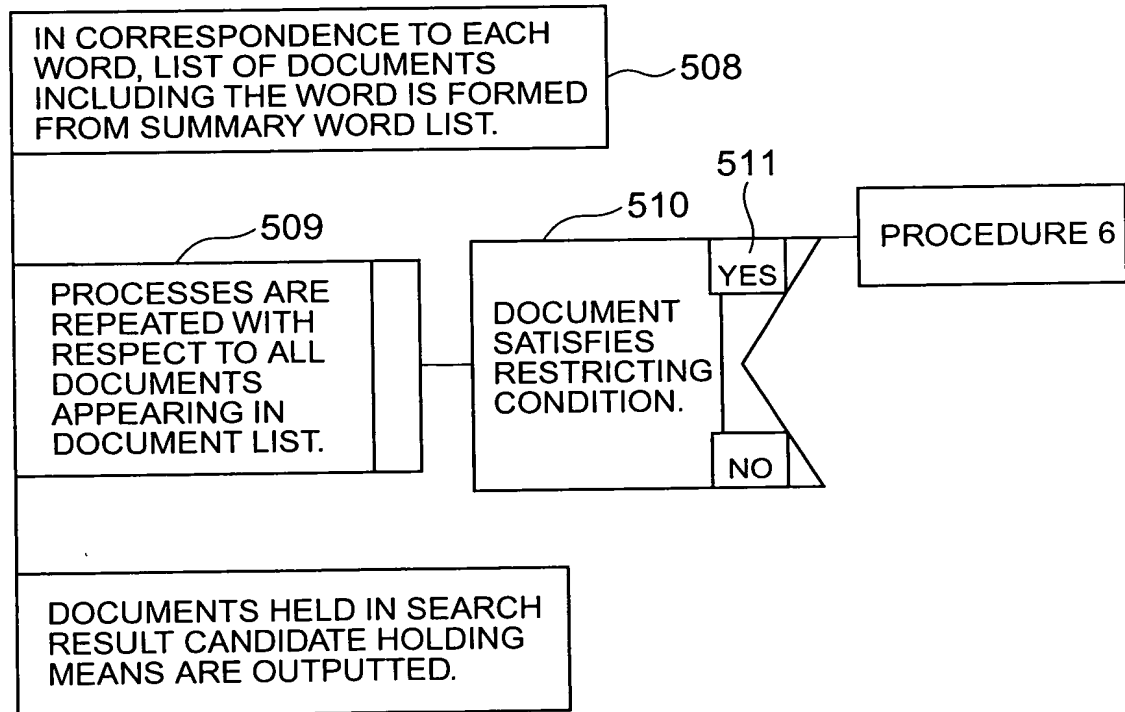


FIG. 17

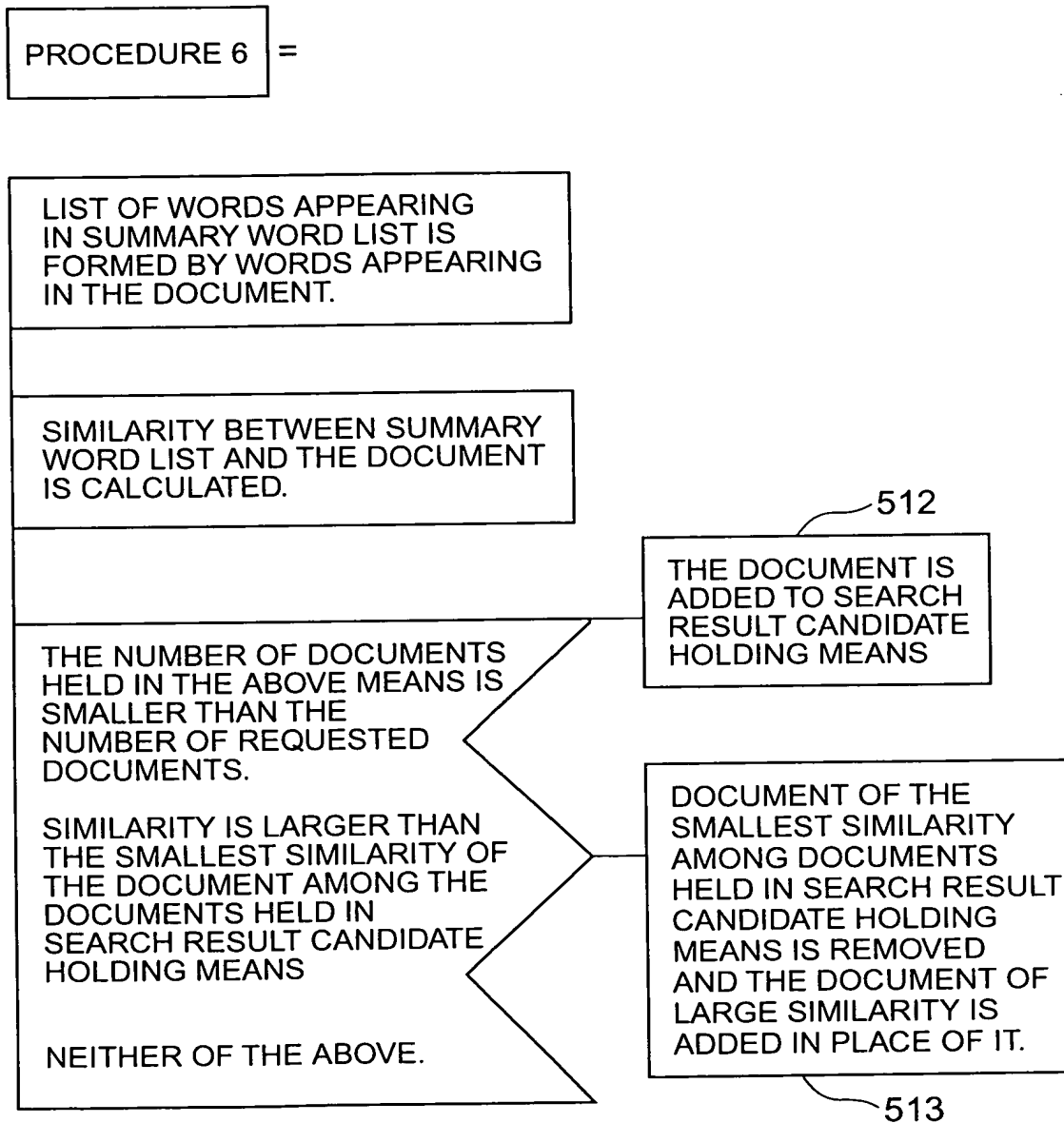


FIG. 18

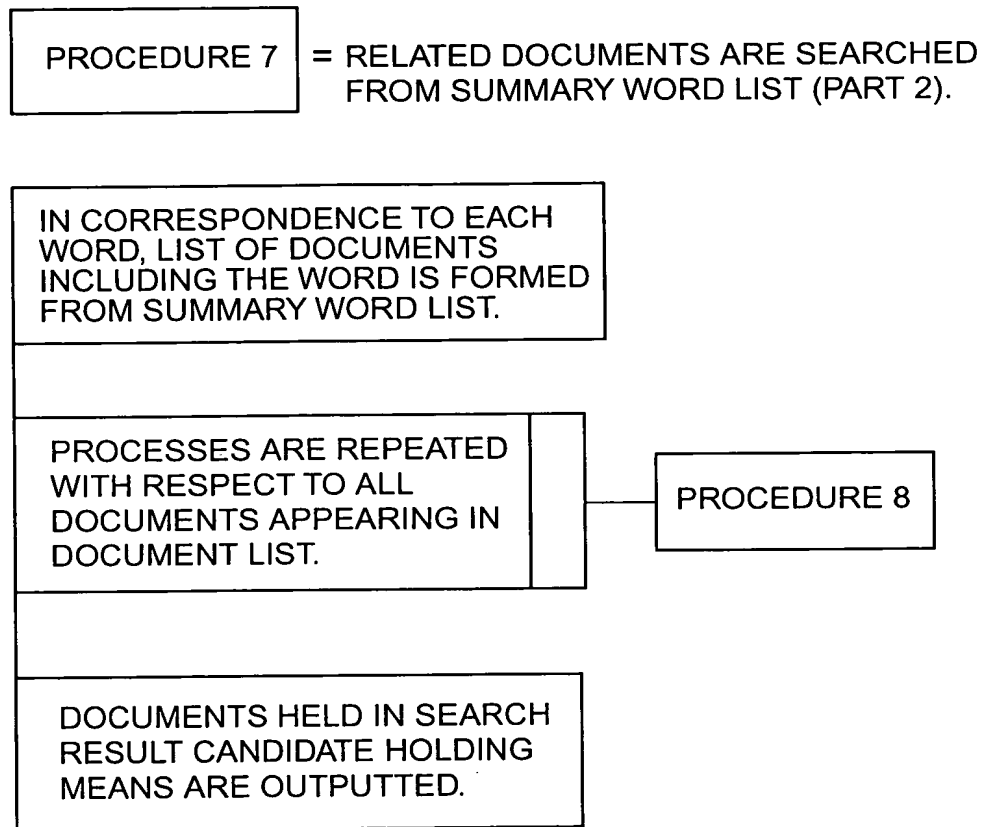


FIG. 19

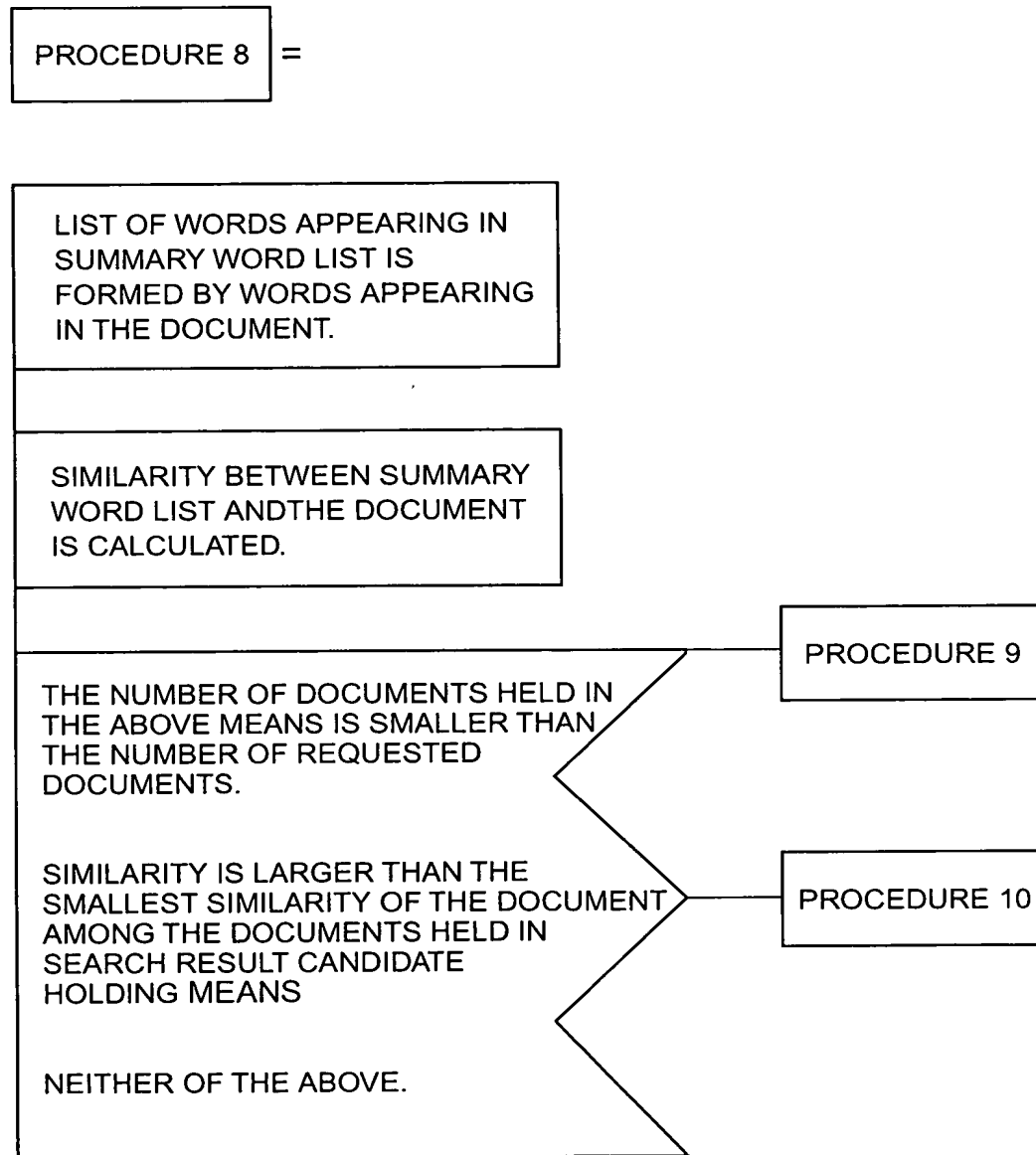


FIG. 20

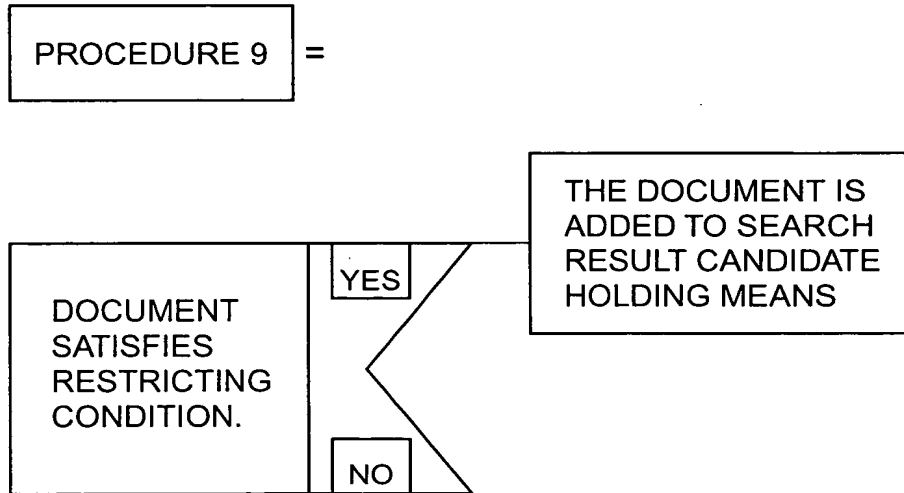


FIG. 21

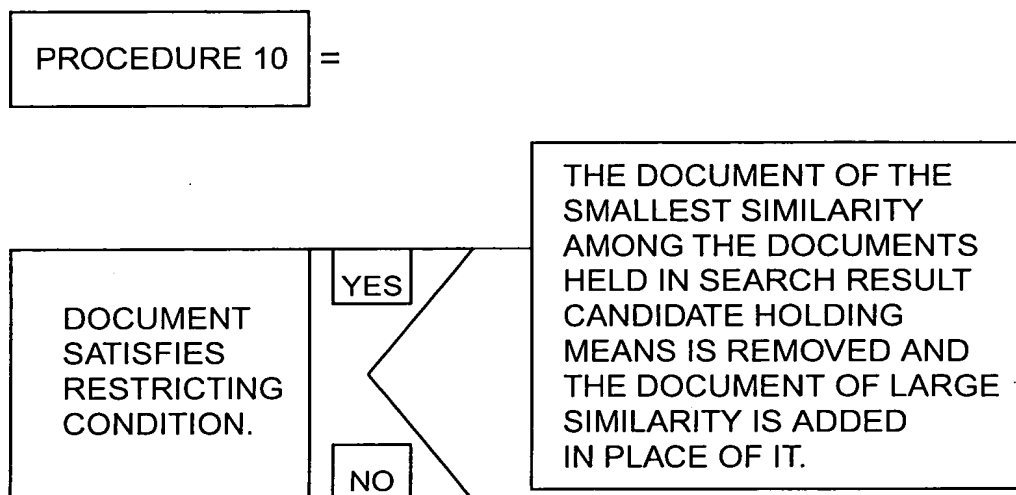


FIG. 22

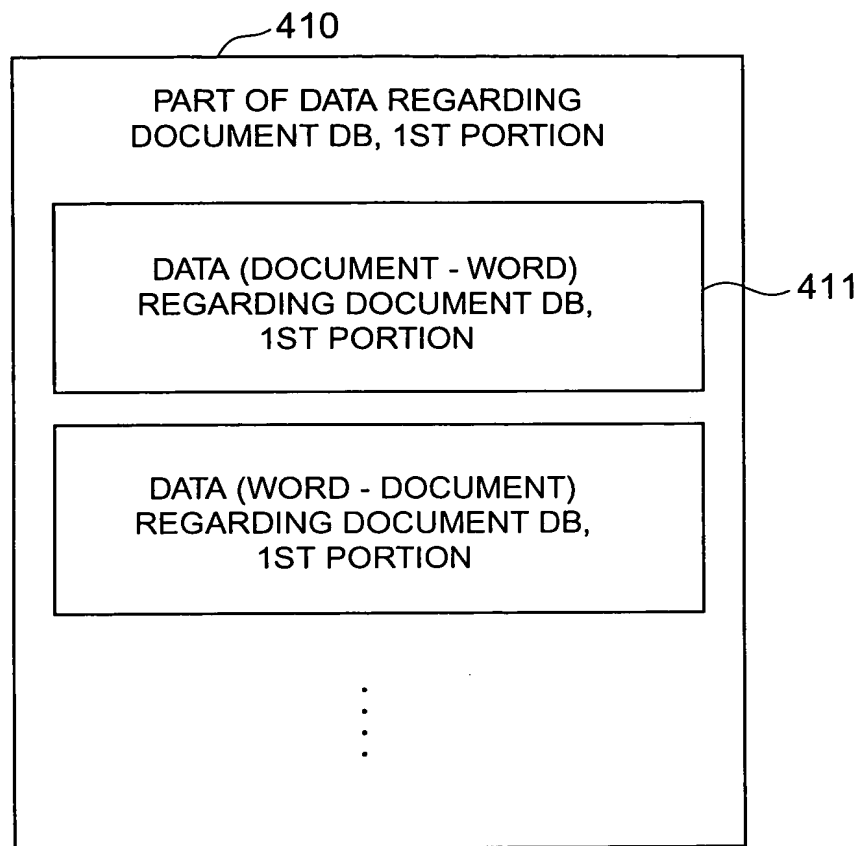


FIG. 23

411

DOCUMENT ID	PAIR OF INCLUDED WORD ID AND FREQUENCY
1	{1,10},{2,3},...
2	...
3	{2,5},...
4	...
...	...

WORD IDS APPEARING IN THIS TABLE: 1, 2, ...

FIG. 24

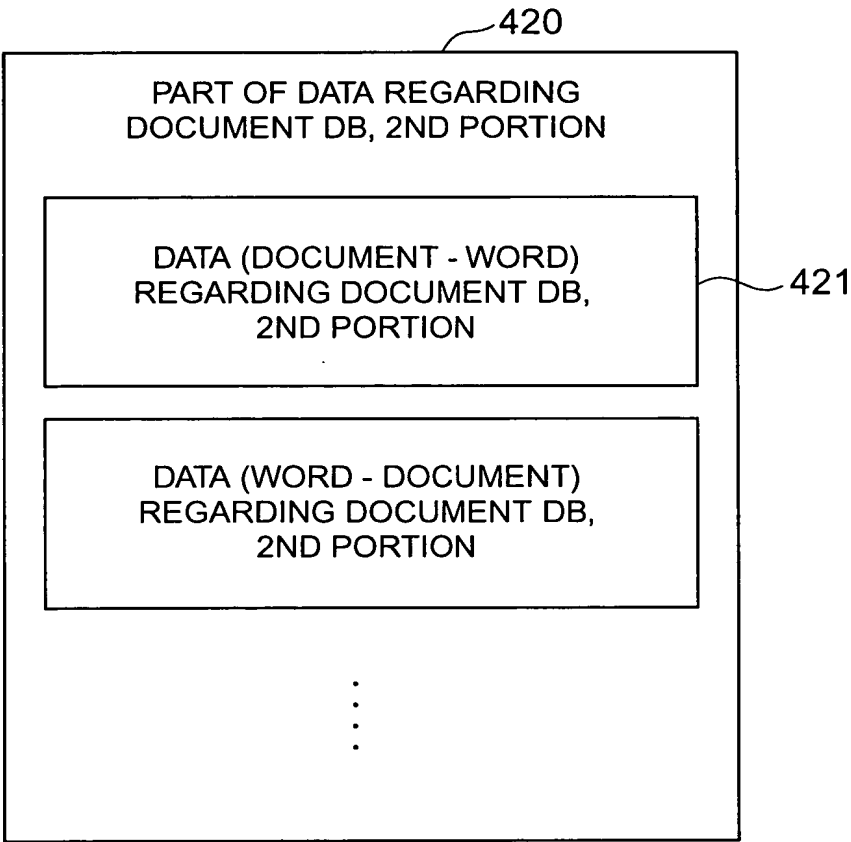


FIG. 25

421

DOCUMENT ID	PAIR OF INCLUDED WORD ID AND FREQUENCY
1	{4,8},...
2	...
3	{4,2},...
4	...
...	...

WORD IDS APPEARING IN THIS TABLE: 3, 4, ...

FIG. 26

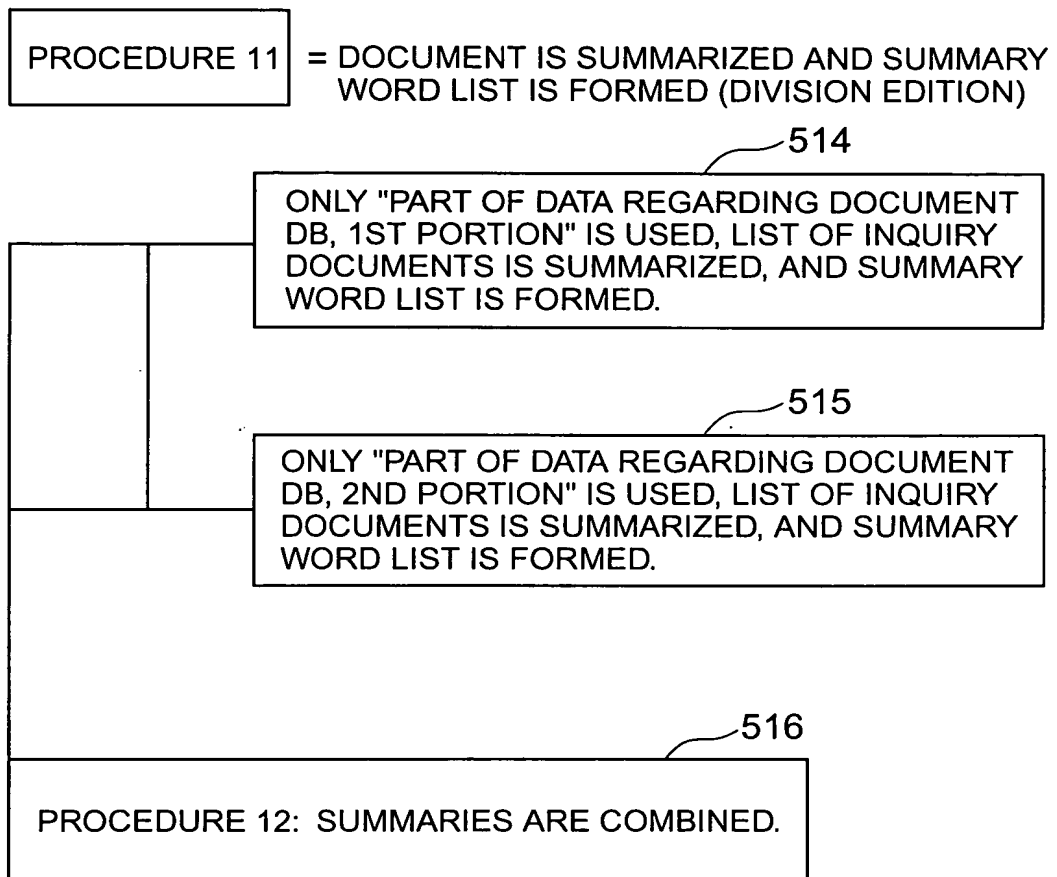


FIG. 27

PROCEDURE 12 = SUMMARIES ARE COMBINED.

SUMMARIES ARE COMBINED
AND ONE LIST IS FORMED.

WHOLE LIST IS REARRANGED IN ORDER OF
EACH ELEMENT OF LARGE IMPORTANCE.

DOCUMENTS OF THE NECESSARY NUMBER ARE
EXTRACTED AS RESULTS FROM HEAD IN LIST,
LIST COMPRISING THE EXTRACTED DOCUMENTS
IS FORMED, AND IT IS USED AS RESULT.

FIG. 28

$$e = p \left(1 - \sum_{j=0}^{k-1} m C_j \left(\frac{1}{p} \right)^j \left(1 - \frac{1}{p} \right)^{m-j} \right)$$

CALCULATING EXPRESSION OF UPPER LIMIT E
OF PROBABILITY IN WHICH PERFECT ASSOCIATION
AND SUMMARY RESULT CANNOT BE OBTAINED IN
THE CASE WHERE THE DIVIDING NUMBER IS P,
THE REQUESTED NUMBER IS M, AND THE NUMBER
OF REPETITION OF EACH PORTION IS K.

FIG. 29

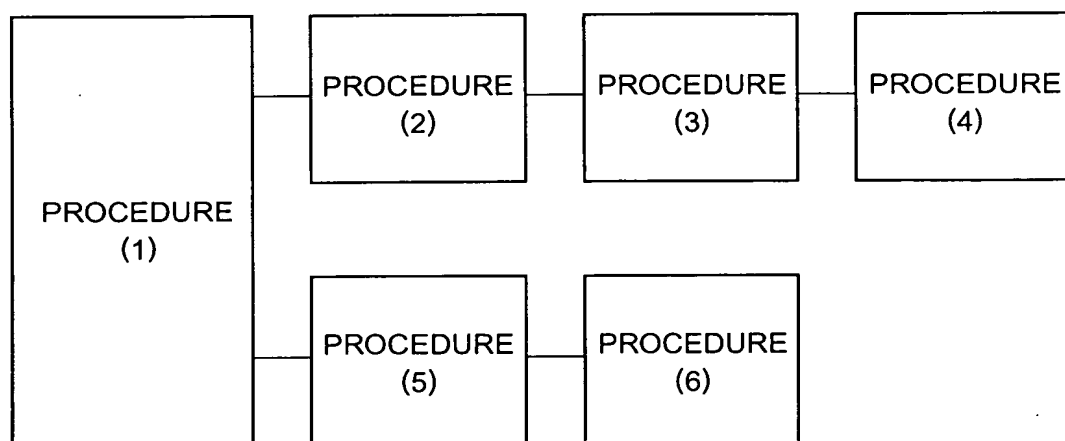


FIG. 30

